Attorney Docket No.: 29462-025

Serial No.: 09/355,422

CLAIMS

1. Austenitic nickel-chromium-molybdenum alloys with additions of silicon, characterized by alloy components (in mass percentages):

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18 - 22 %
Cr
       6 - 10 %
Mo
       0.6 - 1.7 %
Si
C
       0.002 - 0.05 %
Fe
       1 - 5 %
       0.05 - 0.5 %
Mn
       0.1 - 0.5 %
Al
       0.1 - 0.5 %
Ti
Mg
      0.005 - 0.05 %
Ca
      0.001 - 0.01 %
V
      max. 0.5 %
\mathbf{P}
      max. 0.02 %
S
      max. 0.01 %
      0.001 - 0.01 %
В
Cu
      max. 0.5 %
Co
      max 1 %
Nb
      max. 0.5 %
```

Hf and/or Y and/or Zr and/or rare earth elements - 0.02 - 0.5% the remainder being nickel and impurities caused by the melting process, whereby the total amount of additions in Nb + Al + Ti do not exceed 1 %.

2. Alloy as in claim 1, characterized by alloy components (in mass percentages):

```
Cr 18 - 20 %
Mo 8 - 9.0 %
Si 0.7 - 1.1 %
C 0.002 - 0.15 %
Fe 2.5 - 3.5 %
Mn 0.05 - 0.1 %
Al 0.1 - 0.3 %
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Ti 0.1 - 0.4 %

Mg 0.005 - 0.15 %

Ca 0.001 - 0.005 %

V max. 0.1 %

P max. 0.002 %

S max. 0.001 %

B 0.001 - 0.001 %

Cu max. 0.5 %

Nb max. 0.5 %

Hf and/or Y and/or Zr and/or rare earth elements - 0.03 - 0.06% the remainder being nickel and impurities caused by the melting process.

- 3. Alloy as in claim 1, characterized by a molybdenum content between 6.5 and 9.5 %
- 4. Alloy as in claim 1, characterized by a silicon content between 0.6 and 1.3 %
- 5. Utilization of the alloy as in one of the claims 1 to 4, for the production of pipes, sheet metal, band material, foils, wires as well as of items made of these semi-products.
- 6. Utilization of the alloy according to one of the claims 1 to 4 for the production of composite pipes.
- 7. Utilization of the alloy according to the invention as in one of the claims 1 to 4 as corrosion protection in form of applied welding or plating.